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NOTICE OF ALLOWANCE AND FEE(S) DUE

22827

7590

10/12/2010

DORITY & MANNING, P.A. POST OFFICE BOX 1449 GREENVILLE, SC 29602-1449 EXAMINER

JONES, JAMES

ART UNIT PAPER NUMBER

2873

DATE MAILED: 10/12/2010

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/586,276 | 04/18/2008 | Christof Sonderegger | KIZ-223-PCT-US | 4257 |

TITLE OF INVENTION: OPTICAL SENSOR

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 01/12/2011 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

| appropriate. All further ndicated unless correcte naintenance fee notifica | correspondence including ed below or directed oth tions. | ng the Patent, advance on herwise in Block 1, by (a | rders and notification of a) specifying a new co | of m orresp | aintenance fees will condence address; a | l be r nd/or | nailed to the current of (b) indicating a separ- | orrespondence address as ate "FEE ADDRESS" for |
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| DORITY & M POST OFFICE I GREENVILLE, | | |] S £ | I here State addre trans | eby certify that this s Postal Service with | Fee(s |) Transmittal is being | deposited with the United class mail in an envelope bove, or being facsimile e indicated below. |
| | | | [| | | | | (Depositor's name) |
| | | | | | | | | (Signature) |
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| JONES, | JAMES | 2873 | 359-819000 | _ | | | | |
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| PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG | less an assignee is ident h in 37 CFR 3.11. Comp GNEE | oletion of this form is NO | data will appear on th T a substitute for filing (B) RESIDENCE: (C | ie pai an a | tent. If an assignee ssignment. and STATE OR CO | UNT | RY) | cument has been filed for |
| lease check the appropr | iate assignee category or | | - | | | | | p entity Government |
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| _ ` . | tus (from status indicated as SMALL ENTITY state | | □ b. Applicant is no. | long | or claiming SMALI | ENT | ITY status. See 37 CFl | 2 1 27(a)(2) |
| OTE: The Issue Fee an | d Publication Fee (if rea | | d from anyone other th | | | | | assignee or other party in |
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| n application. Confiden ubmitting the completed ais form and/or suggesti | tiality is governed by 35 d application form to the ions for reducing this bu. Virginia 22313-1450. DC | U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th | 1.14. This collection is depending upon the ir e Chief Information Of | s esti: ndivi fficer | mated to take 12 min dual case. Any com TIS Patent and Tr | nutes ments adem | to complete, including on the amount of tim ark Office J.S. Depar | by the USPTO to process) gathering, preparing, and e you require to complete tment of Commerce, P.O. or Patents, P.O. Box 1450, |

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| POST OFFICE BO | | ART UNIT | PAPER NUMBER | | |
| GREENVILLE, S | C 29602-1449 | | 2873 | | |
| | | DATE MAILED: 10/12/2010 | | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 299 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 299 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

| | Application No. | Applicant(s) | | | |
|---|--|--|--------------------|--|--|
| | 10/586,276 | SONDEREGGER ET | AL. | | |
| Notice of Allowability | Examiner | Art Unit | | | |
| | JAMES C. JONES | 2873 | | | |
| The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to amendment filed 6/28 | (OR REMAINS) CLOSED or other appropriate com GHTS. This application is and MPEP 1308. | in this application. If not included munication will be mailed in due co | ourse. THIS | | |
| 2. ☑ The allowed claim(s) is/are <u>1-15,17,21,25 and 27</u> . | | | | | |
| 3. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). | been received. been received in Applica | tion No | on from the | | |
| * Certified copies not received: | | | | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm | IENT of this application. | | | | |
| INFORMAL PATENT APPLICATION (PTO-152) which give | | | TICE OF | | |
| 5. CORRECTED DRAWINGS (as "replacement sheets") mus | st be submitted. | | | | |
| (a) including changes required by the Notice of Draftspers | on's Patent Drawing Revi | ew (PTO-948) attached | | | |
| 1) ☐ hereto or 2) ☐ to Paper No./Mail Date | | | | | |
| (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date | | | | | |
| Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the | | | ack) of | | |
| DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT | | | te the | | |
| | | | | | |
| Attachment(s) 1. ☐ Notice of References Cited (PTO-892) | 5 □ Notice of | Informal Patent Application | | | |
| 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) | | Summary (PTO-413), | | | |
| 3. ☐ Information Disclosure Statements (PTO/SB/08), | Paper N | o./Mail Date 's Amendment/Comment | | | |
| Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit | 8. 🛛 Examiner | 's Statement of Reasons for Allow | ance | | |
| of Biological Material | 9. | 9. | | | |
| | /Jordan M. So Primary Exan | chwartz/ niner, Art Unit 2873 | | | |
| | | | | | |

Application/Control Number: 10/586,276 Page 2

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1. Claims 1-15, 17, 21, 25 and 27 are allowed.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: the prior art does not disclose the claimed combination of limitations to warrant a rejection under 35 USC 102 or 103.

Regarding independent claim 1 (and its dependents), the prior art does not disclose the claimed optical sensor specifically including, as the distinguishing features in combination with the other limitations the claimed "a sheath surrounding the lens system and one end of the waveguide, wherein the lens system comprises at least one essentially piano-concave lens and a double concave lens wherein the planar face of the piano-concave lens is exposed to the combustion chamber".

Regarding independent claim 14 (and its dependents), the prior art does not disclose the claimed optical sensor specifically including, as the distinguishing features in combination with the other limitations the claimed "sensor comprising a lens system having at least two lenses, wherein the gap between the outer radius of the lenses and the inner radius of the sheath is less than 10 μ m, and that the gap is filled with a soldering paste and that the deviation of the axial orientation of the waveguide and the lens system is less than 10 μ m.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Application/Control Number: 10/586,276 Page 3

Art Unit: 2873

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES C. JONES whose telephone number is (571)270-1278. The examiner can normally be reached on Monday thru Friday, 8 a.m. to 5 p.m. est. time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Mack can be reached on (571) 272-2333. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/James C. Jones/ Examiner, Art Unit 2873 9/30/2010 /Jordan M. Schwartz/ Primary Examiner, Art Unit 2873